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ABSTRACT

This book is designed to help educators cope with changes created by technology and embrace a new mindset necessary to access the burgeoning technological advances, in order to keep schools and students relevant in the 21st century. The book looks through several "windows" on the future, and asks educators to consider their own paradigms and the effects these mind-sets have had on how they view and use technology. The intent is to provide interpretation, understanding, context, and vision to the multitude of changes that are happening as well as to the implications these changes have for the future. One window looks back into the recent past at the major foundations of the Industrial Age. Through another window, 10 major developments of significance in the human quest for computing power are examined, starting with counting stones and leading up to today's supercomputers. The power of Moore's Law and the growth in the processing power of computational devices are considered, and the impact this doubling might have on the future is projected. This leads to another window focusing on the four major technological trends unfolding in the world today: global digital networks, technological fusion, new strategic alliances, and personal computers for everyone. These multiple views are then superimposed on education past, present, and future to shape a vision of schools for the new millennium. Each of the following chapters in this book represents a different window: (1) The Power of Paradigm; (2) Mounting Paradigm Pressure; (3) Assessing Your Paradigm; (4) The Technology of Change; (5) Moore's Law; (6) Looking at the Road Ahead; (7) It Is Time for Education To Catch Up; (8) Education in the Future; (9) New Skills for Students; (10) New Roles for Educators; and (11) The Need for Vision. An annotated list of recommended readings is provided. Includes an index. (Contains 14 references.) (AEF)

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